

RESULTS IN THE DETERMINATION OF DEW POINT, BY M. I.
LEIFMAN.

RUSSIAN, PER, TEPLONERGETIKA, VOL VII, NO 8,
1960, PP 29-32.

NLL M. 6011

SCI - PHYS

OCT 62

212,999

The Resistance of Gas Turbine Metals to
Vanadium Corrosion, by R. A. Lipshteyn, S. E.
Khaykina, E. S. Ginzburg, t

RUSSIAN, per, Teploenergetika, Vol VII, No 8,
1960, pp 57-60.

INFOSERV TR-101

SLA 67-17215

1104 Y 1 1 1 1

:Vol V, No 5
Jul 61

160,157

61-23656

Nikolenko, I. A.
THE VOLUMETRIC EXPANSION OF BOILER WATER
WITH DIFFERENT CONSTITUENTS IN SOLUTION
(Nabukhvatye Kotelnykh Vody Razlichnogo Sostava).
July 61 [7]p. RTS 1767.
Order from OTS or SLA \$1.10

61-23656

Trans. of Tekhnicheskii (USSR) 1960 [v. 7]
no. 8, p. 71-74.

DESCRIPTORS: *Boiler water, *Salts, *Solutions,
Volume.

Experimental data were obtained regarding the effect
of salts in solution in the boiler water on the expansion
rate of the latter during the formation of steam at
different rates of output. The effects of saline compo-
nents in the boiler water are not additive as regards
the expansion rate due to the formation of steam.
The gravimetric level in the water level indicator
glass with the bottom connection pipe in the zone of
the connection. Mechanical. TT. v. 6, no. 4) (over)

I. Nikolenko, I. A.
II. RTS-1767
III. Department of Scientific
and Industrial Research
(Gt. Brit.)

177725

Office of Technical Services

Simplified Empirical Relationships for Mass
Transfer During Steam Condensation for Steam-
Gas Mixtures, by L. D. Barran.

RUSSIAN, per, Teploenergetika, Vol VII, No 3,
~~1963~~ 1960, pp 74-78.

ILL Ref: 9022.09 1964 (3507)
(loan copy)

Sci
Sep 64

Sterman, I. S., Petukhov, V. V. and others.
ANALYSIS OF HEAT ECONOMY FOR ATOMIC
ELECTRICITY POWER STATIONS WITH A GASEOUS
HEAT CARRIER, tr. by J. K. Skwirzynski. 6 Jan 61
[22]p. 6 refs. [DSIR LLU] M. 3093.
Order from OTS or SLA \$2.60 61-27549

Trans. of Teploenergetika (USSR) 1960, v. 7 [no. 9]
p. 6-12.

DESCRIPTORS: *Nuclear power plants. *Electric
power production. *Heat, Economics, Power plants,
USSR.

A method is proposed for analysis of heat economy of
atomic power stations with a gaseous heat carrier.
The analysis is made at gas temperatures of 340, 375
and 400°C at the entry to the steam generator for two
pressure cycles and at temperature of 375°C for a
(Nuclear Physics--Nuclear Engineering, TT, v. 7,
no. 1)
(over)

61-27549

I. Sterman, I. S.
II. Petukhov, V. V.
III. DSIR LLU M. 3093

Office of Technical Services

Hydraulic Design of Air Cooling Systems for
Multi-Stage Gas Turbines by Using Electric
Models, by I. T. Shvets, Ye. P. Dyban, et al,
13 pp.

RUSSIAN, per, Teploenergetika, No 9, 1960,
pp 14-17.

NASA TT F-78

Sci-Engr
May 63

229,759

A Method of Elucidating the Process of Formation of Iron Oxide Deposits on the Inner Heating Surfaces of High Pressure Boilers, by N. N. Mankina, 8 pp.

RUSSIAN, per, Teploenergetika, No 9, 1960, pp 30-34.

Dept of Interior
T7 E57 No 4;

Sci - Engr
Feb 63

22, 411

Ratner, A. V. and Aristov, M. Ya.
DESIGN OF SUPERHIGH-PRESSURE STEAM PIPING
FOR STRENGTH (Raschet Paroprovodov Sverkhvy-
sokogo Davlениya na Prochnost'). July 61 [12]p. 9 refs.
RTS 1846.

Order from OTS or SLA \$1.60

61-27188

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 9,
p. 44-49.

DESCRIPTORS: *Steam pipes; Design; Tensile proper-
ties; *Stress.

The paper describes an experimental determination of
the expansion forces and bending moments acting in
steam piping. It gives an improved method for the cal-
culation of piping for strength. (Author)

(Engineering-Mechanical, TT, v. 6, no. 7)

61-27188

I. Ratner, A. V.
II. Aristov, M. Ya.
III. RTS-1846
IV. Department of Scientific
and Industrial Research
(Gt. Brit.)

Office of Technical Services

Andryshchenko, A. I. and Lapshov, V. N.
RATIONAL CYCLES OF STEAM-GAS PLANTS
(Ratsionalnye Tsikly Paragazovykh Ustanovok). [1961]
(8)p. 3 refs. (DSIR LLU) M. 2956.
Order from OTS or SLA \$1.10

61-23374

Trans. of Toploenergetika (USSR) 1960, v. 7 (no. 9)
p. 60-62.

DESCRIPTORS: *Power plants, Operation, Steam
turbines, Gas turbines.

Rational cycles and thermal schemes of steam-gas
plants are proposed in which a steam turbine is utilized
for driving the compressors. (Author)

(Engineering--Mechanical, TT, v. 6, no. 6)

61-23374

- I. Andryshchenko, A. I.
- II. Lapshov, V. N.
- III. DSIR LLU M. 2956

CSIRO

176652

Office of Technical Services

WATER AND STEAM CONTENTS DURING SURFACE BOILING
OF WATER, BY P. G. POLETAVKIN.

RUSSIAN PER, TEPLOENERGETIKA, VOL VII, NO 9,
1960, PP 67-71.

NLL M. 4665

SCI 4- PHYS

JUL 62

203,004

Equation of State for Heavy Water: (D_2O) From
p-v-T Experimental Data, by A. M. Mamedov.

RUSSIAN, per, Teploenergetika, No 9, 1960, pp 71-75.

NLL RTB 1847

Sci - NucPhys

Jan 62

180,020

CEA-tr-R-1374 Uncl.

EQUATION D'ETAT DE L'EAU LOURDE D₂O D'APRES
LES DONNEES EXPERIMENTALES DE p - v - T.
(Equation of State of D₂O from p-v-T
Experimental Data). A. M. Mamedov. Trans-
lated into French from Teploenergetika,
7: 71-4(1960). 12p. 9c93631

Chemistry; Translations MC-

C-4 NP NSA Dep.(mc); \$1.00(fs), \$0.00(mf)
JCL or LC

N-3

Development of Thermoelectric Power in the Polish
People's Republic, by Adislaw Voytashov, 15 pp.

RUSSIAN, per, Teploenergetika, No 9, Moscow, 1960,
pp 89-94. (Call No TJ.4, T31, Eng Tr)

AME

REMAR - Poland

ECOM

Jan 61

136,563

Principal Features of the K-100-240 Turbine Unit,
by L. A. Shubenko-Shubin.

RUSSIAN, per, Teploenergetika, No 10, 1960,
pp 6-13.

NLL M. 3355

Sci - Engr

191, 912

Apr 62

Choice of the Optimum Area of Exhaust Cross-Section
and Number of Shafts for Steam Turbines of 300 to
600 MW Capacity, by L. D. Herman, et al.

RUSSIAN, par, Teploenergetika, No 10, 1960, pp 14-22.

NLL M. 3356

Sci - Engr

62-24887 191,917

Apr 62

Temperature Tests on the High-Pressure Turbines of
the Leningrad Metal Works, by P. G. Tret'yakov,
B. L. Nevchenko.

RUSSIAN, per, Toploenergetika, No 10, 1960, pp 22-27.

NLL M. 3354

Sci - Engr

Apr 62

272 - 523-41

191,913

Kirillov, P. L.
LE SODIUM ET LES ALLIAGES SODIUM-POTASSIUM
EN TANT QU'AGENTS DE TRANSPORT THERMIQUE
POUR LA SURCHAUFFE SECONDAIRE DE LA
VAPRUR ET LES PROCESSUS TECHNOLOGIQUES
(Sodium and Sodium-Potassium alloys as Heat Trans-
fer Media for Reheating of Steam and other Processes).
13p. (foreign text included) 9 refs. FR-3175 (text
in French).
Order from OTS or ETC \$1.85 62-26165

Trans. in French of Teploenergetika (USSR)
1960 [v. 7] no. 10, p. 40-42

DESCRIPTORS: *Sodium alloys, *Potassium alloys,
*Heat transfer, Steam, Heating.

(Physics--Thermodynamics, TT, v. 9, no. 8)

62-26165

- I. Kirillov, P. L.
- II. FR 3175
- III. Centre National de la
Recherche Scientifique
(France)

Office of Technical Services

DR-

The Calorific Properties of a 96% (by Volume)
Solution of Ethyl Alcohol in Water, by H. P.
Vukalovich, et al.

RUSSIAN, per, Teploenergetika, No 10, 1960,
pp 63-67.

ALL RTS 2042

Sci - Chem

For 62

2,1,507

61-12280

Sirota, A. M. and Mal'tsev, B. K.
EXPERIMENTAL DATA ON THE THERMAL CAPAC-
ITY OF WATER VAPOR AT PRESSURES OF 300
TO 500 ATM. AND TEMPERATURES OF 500 TO
600°C. [1960]

Order from INFOSERV \$2.00 INFOSERV TR-102

Trans. of Teploenergetika (USSR) 1960, v. 7, no. 10,
p. 67-68.

- I. Water vapor--Thermal
properties
- I. Sirota, A. M.
- II. Mal'tsev, B. K.
- III. INFOSERV TR-102
- IV. INFOSERV, West Hartford,
Conn.

H.L.

Office of Technical Services

(Chemistry--Physical, TT, v. 5, no. 4)

CEA-tr-R-1410 Uncl.

DONNEES EXPERIMENTALES SUR LA CHALEUR SPECIFIQUE DE LA VAPEUR D'EAU SOUS DES PRESSIONS DE 300 A 500 ATMOSPHERES ABSOLUES ET A DES TEMPERATURES DE 500 A 600°C. (Experimental Data on the Specific Heat of Steam under Absolute Pressures of 300 to 500 Atmospheres and at Temperatures of 500 to 600°C). A. M. Sirota and B. K. Mal'tsev. Translated into French by B. de Trezvinsky from Teploenergetika, 7: No. 10, 67-8(1960). 6p.

Heat Transfer; Physics; Translations MC-34

C-34 NP NSA Dep.(m): \$1.10(fs), \$0.80(mf)
N-5 JCL or S

(DC-4600/2)

In What Respects Is Mr. Philip Sporn Wrong, by
A. P. Rozhdostvenskiy, 9 pp.

RUSSIAN. par, Teploenergetika, No 10, 1960,
pp 69-73.

JPRS 6613

USSR

138,902

Econ

Feb 61

Yuza, Ya.
EQUATION OF STATE FOR SATURATED AND
SUPERHEATED STEAM (Uravneniye Sostoyaniya dlya
Nasyahchemogo i Peregretoho Vodyanogo Para). Apr 61
[25]p. 20 refs. RTS 1827.
Order from OTS or SLA \$2.60

61-19799

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 10,
p. 80-89.

DESCRIPTORS: *Equations of state, *Steam, Physical
properties, Tables, Enthalpy, Specific heat.

It is shown that the new equation of state is suitable for
the calculation of the specific volume, enthalpy, and
specific heat in the following regions: 0 to 344° C up to
the saturation curve; 350° C for $v \geq 10 \text{ cm}^3/\text{g}$; 470° C
for $v \geq 10 \text{ cm}^3/\text{g}$; 500° C for $v \geq 6 \text{ cm}^3/\text{g}$ and 600 to
850° C for $p \leq 600 \text{ kg/cm}^2$. (Author)

(Physics--Thermodynamics, TT, v. 1, no. 5)

61-19799

- I. Yuza, Ya.
- II. RTS-1827
- III. Department of Scientific
and Industrial Research
(Ox. Brit.)

180500

Office of Technical Services

Determination of the Density of Liquid Oxygen Over a
Wide Range of Temperatures and Pressures, by D. L.
Timrot, et al, UNCL, 1 PP

RUSSIAN, per, Teploenergetika, No 10, 1960, p 95.

9501-1258
OATC NCL-1258/1

Sci - Chem

5 Jul 61

AFCH-4528 3-7-15

(DC-4600/3)

Some Operational Problems of Thermal Electric
Power Stations, by A. P. Nemoz, S. Ye. Shitman,
13 pp.

RUSSIAN, per, Toploenergetika, No 11, 1960, pp 3-8.

JPRS 67113

140, 305

USSR

Econ

Feb 61

Ryzhkin, V. Ya. and Tambliveva, I. N.
PROSPECTS OF INCREASING THE EFFICIENCY OF
LARGE THERMAL POWER STATIONS (Perspektivy
Povysheniya k.p.d. Moshchnykh Teplovykh
Elektrostantsiy) Apr 61 [15]p. 5 refs. RTS 1328
Order from OTS or SLA \$1.60 61-19941

Transl. of Teploenergetika (USSR) 1960 [v. 7] no. 11,
p. 9-15.

DESCRIPTORS: *Steam power plants, *Steam turbines,
*Boilers, Steam.

An investigation is made of the efficiency of large
condensing steam turbine power stations for operating
at 1000 atm abs and 1000 °C. The regions of optimum
pressures were determined for various initial steam
temperatures and also the corresponding general
efficiency level for turbine units of power stations.

(Engineering--Mechanical, TT, v. 6, no. 2)

61-19941

- I. Ryzhkin, V. Ya.
- II. Tambliveva, I. N.
- III. RTS-1328
- IV. Department of Science
and Industrial Research
(Gr. Brit.)

164603

Office of Technical Services

Hydrazene Treatment of Feedwater for TP-240-1
Ultra-High-Pressure Boilers, by D. Ya. Kagan,
T. A. Kaganer.

RUSSIAN, per, Teploenergetika, Vol VII, No 11,
1960, pp 46-48.

MLL N. 3106

Sci - Engr

189,812

Apr 62

Effect of Ultra Sound on the Intensification
of Heat Exchange, by A. P. Tret'yakov,
Chen Khua-Din, 4 pp.

RUSSIAN, per: Tekhnologiya, No 11, 1960,
pp 64-66. 9670287

ATTN: MCL-1153/1

Sci - Phys

Jul 61

161,336

Gurvich, A. M. and Mitor, V. V.
RADIATING CAPACITY OF FURNACE INSTALLA-
TIONS (Izluchatel'naya Spособnost' Topochnykh
Ustroystv). Apr 61 [10]p. 5 refs. RTS 1830.
Order from OTS or SLA \$1.10 61-1969H

Trans. of ~~Topoenergetika~~ (USSR) 1960 [v. 7] no. 11,
p. 66-69.

DESCRIPTORS: Boilers, *Combustion chambers,
*Thermal radiation.

Formulae are given for calculating the degree of
blackness of chamber-type furnaces and fuel-bed
furnaces, derived on the assumption that the heat-
receiving surfaces of the shields are grey and are
heated to a high temperature. (Author)

(Engineering--Mechanical, TT, v. 6, no. 2)

61-19698

- I. Gurvich, A. M.
- II. Mitor, V. V.
- III. RTS-1830
- IV. Department of Scientific and
Industrial Research
(Gt. Brit.)

104631

Office of Technical Services

(DC-4600/3)

The Large CHES in the Moscow Power Station, by N. A.
Pentnikov, 4 pp.

RUSSIAN, per, Teploenergetika, No 11, 1960,
pp 90, 91.

JPRS 6718

USSR

140,976

Econ

Feb 61.

(DC-4600/5)

From the Gosstro Plan to the Complete
Electrification of the USSR, by I. T. Novikov,
3 pp.

RUSSIAN, per, Teploenergetika, No 12, 1960,
pp 3-7.

JPRS #1035

USSR

150,437

Econ

Apr 61

Indices of Materials for the Parts of High and
Paper Edge Pressure Accessories Subjected to
Load, by A. V. Ratner, L. G. Leonova.

SISSOOL, par, Teploenergetika, Dec 1960,
pp 14-18.

BISI 2065

Sci. Eng.

Jun 61

154,558

On the Problem of the "Blocking" of the
Distributing Nozzle and of the Working Blad-
ing of Profiles in a Supersonic Flow, by
M. Ye. Deych, A. V. Gubarev, 19 pp.

RUSSIAN, per, Teploenergetika, No 12, 1960,
pp 27-33. 9673057

FED NCI-1335/1

Sci - Phys

182,595

15 Feb 62

28

An Experimental Investigation Into
Heat Loss Upon Condensation of Steam
in Horizontal and Slightly Inclined
Tubes, by V. V. Konsetov.

RUBBLAK, par, Teploenergetika, XAY
No 12, 1960, pp 67-71.

NLL M.3320

Sol - Phys
Feb 62

186,694

61-23637

- I. Kuznetsov, N. V.
- II. Zrodnikov, S. E.
- III. RTS-1873
- IV. Department of Scientific and Industrial Research (Ot. Brit.)

176654

Office of Technical Services

Kuznetsov, N. V. and Zrodnikov, S. E.
SEMINAR ON NEW METHODS FOR REMOVING
FIRESIDE DEPOSITS FROM HEATING SURFACES
(Seminar po Novym Metodam Ochlodka Poverkhnostei
Nagreva ot Zolovykh Otkozhenii). June 61 [9]p. 1 ref.
RTS 1873.
Order from OTS or SLA \$1.10 61-23637

Trans. of Teploenergetika (USSR) 1960 [v. 7] no. 12,
p. 90-91.

DESCRIPTORS: *Boilers, Cleaning, *Deposits, Heat
exchangers

Conclusions and proposals that were adopted by the
participants of the seminar, which took place from the
28th to the 30th of June (1960?), are presented on (1)
self-cleaning heating surfaces, (2) the shot-blasting
method of cleaning, (3) the vibration method of cleaning,
(4) blowing equipment using superheated water, and
(5) comprehensive cleaning.
(Engineering--Mechanical, TT, v. 6, no. 6)

(DC-4600/8)

Economic Problems in the Long-Range Development
of USSR Electric ~~POWER~~ Power, by S. F. Sherahov,
5 pp.

RUSSIAN, per, Teploenergetika, No 1, 1961,
pp 3-7.

JPRS 8650

NAH M 5111
163,334

USSR
Econ
Aug 61

Certain Experimental Data Regarding the Hydraulics
of Cell Elements With Upward and Downward Flow
of Two-Phase Mixtures, by L. Yu. Krasyakova.

RUSSIAN, per, Yedloenergetika, No 1,
1961, pp 16-22.

MLL/RIS 1956

Doc - Ring

193,826

Apr 62

Joint Operation of a Turbine Stage and Adjoining
Inlet of Exhaust Branch, by V. I. Kamylin.

RUSSIAN, per, Teployenergetika, Vol VIII, No 1,
1961, pp 37-44.

MLL M. 3540

Sci - Engr
Jun 62

Ref 1.2
201, 036

Relative Velocities of a Steam-Water Flow in
~~XXXX~~ Vertical Unheated Pipes, by S. Kostarin,
N. I. Semenov, et al.

RUSSIAN, par, Teploenergetika, Vol. VIII, No 1,
1961, pp 58-65.

AEC-MIL-RTS-1957

Sol - Engr

Apr 63

227,028

Phase Transition in the Supercritical Region and
the Inversion Curve, by D. D. Kalafati.

RUSSIAN, Tr. Teploenergetika, No 1, 1961,
pp 72-78.

ALL RPS 1958

Sci - Mag

Jul 62

204,846

An Investigation of the Stages of a Gas Turbine
With a Low Ratio D_{av}/l_{b1} , by Kh. I. Babenko,
10 pp.

RUSSIAH, per, Teploenergetika, No 2, 1961,
pp 24-28. 9676208

FTD-TT-761-318

192,677

Sci Eng

Role of Dispersion in the Processes of
Radiant Exchange of Energy, by
V. N. Adrianov, 11 pp.
RUSSIAN, per, Toploenergetika, Vol VIII,
No 2, 1961, pp 63-66. P100058667
FTD HT 66-303

Mechanical
Mar 67

320,425

Light Modelling of Radiant Heat Exchange in
Furnaces, by L. A. Voulis.

RUSSIAN, per, Teploenergetika, Vol VIII, No 2,
1961, pp 67-71.

Dept of Interior
TN 1557 No 568

Sci - Engr

Jan 63

219,235

HEAT EMISSION AND RESISTANCE OF CHECKERED TUBE
BUNDLES IN A TRANSVERSE FLUID FLOW, BY A. A.
ZHULASAS, A. A. SHLANCHYASKAS.

RUSSIAN, PER, TEPLOENERGETIKA, NO 2, 1961, PP 72-75.

NLL M. 6018

SCI - PHYS

OCT 62

213,001

An Investigation of the Dependence of the Critical
Heat Load on Mass Flow Rate, Subcooling, and
Pressure, by A. P. Ornatskiy, A. M. Kichigin,
12 pp.

RUSSIAN, per, Teploenergetika, Vol VIII, No 2, 1961,
pp 75-79. 9208240

AEC-Tr-5710

Sci - Phys

234, 279

JUN 63

Effect of Ultrasonic Vibrations on the
Burning of Carbon, by A. G. Popov.
RUSSIAN, per, Teploenergetika, No 3,
1961, pp 8-10.
AIR/FTD/HT-23-485-68

Sci-Phys
Apr 69

379,561

A Study of the Possibility of Using Polycrystalline Silicon to Make Photoelectric Converters, 17 pp.

RUSSIAN, per, Teploenergetika, No 3, 1961.
9668532

FTD-TT-62-1656

Sci-Phys
May 63

230824

The Distribution of Impurities in the Alloyed
Layer of Photoelectric Converters, 12 pp.

RUSSIAN, per, Teploenergetika, No 3, 1961.
9668552

FTD-TT-62-1656

Sci-Phys
May 63

230,823

Designs and Electrical Characteristics of
Batteries Made From Silicon Photoelectric
Converters, 10 pp.

RUSSIAN, per, Teploenergetika, No 3, 1961.
9668532

FTD-TT-62-1656

Sci-Chem
May 63

230825

The Speed-Control Stages of Low and Average
Capacity Turbines, by A. V. Shebekoldin,
V. I. Kiryukhin, 12 pp.

RUSSIAN, per, Toploenergetika, No 3, 1961,
pp 36-40. 9676279

FTD-TT-61-372

Sci - Engr

192,676

Apr 62

AN INVESTIGATION INTO THE ACTION OF CONTAMINATED
LOW-TEMPERATURE STEAM ON 35KHNM AND 1KH18N9T
STEEL IN THE STRESSED STATE, BY D. YA. KAGAN,
L. S. ZHURAVLEV.

RUSSIAN, PER, TEPLONERGETIKA, VOL VIII, NO 3,
1961, PP 46-48.

NLL M. 6323

SCI - CHEM

NOV 62

02 18 2375

217,686

Prevention of Corrosion of Condensate Systems
With the ~~XXXX~~ Aid of Film-Forming Amines, by
P. A. Akolzin, 14 pp.

RUSSIAN, per, Teploenergetika, No 3, 1961,
pp 49-52.

Dept of Interior
TC# E57 No 50

Sci - Engr
Feb 63

251 912

Heat Transfer of Compact Checkerboard Bundles
Subjected to a Transverse Flow, by V. I.
Tolubinskiy, V. M. Legkiy, 11 pp.

RUSSIAN, p r, Teploenergetika, No 3, 1961
RD 53-56. 9667328

FED-TA-51-106

Sci - Eng
Jan 62

Heat Transfer to Sodium in the Region of Small
packet Numbers, by N. S. Pirogov, 8 pp.

RUSSIAN, per, ~~iz~~ Teploenergetika, No 3, 1961,
pp 62-64. 9667328

FTD-IT-61-106

Sci. - Phys
Jan 63

211-7

The Determination of the Thermal Conductivity of
Heat Insulating Materials at Temperatures up
to 2000° C, by A. G. Kharlamov.

RUSSIAN, per, Teploenergetika, Vol VIII, No 3,
1961, pp 54-66.

NLL M 6376

Sed - Phys
Mar 63

225, 416

A New Equation for the Exponent of the Adiabatic
of Wet Steam, by V. V. Sychev.

RUSSIAN, per, Teploenergetika No 3, 1961,
pp 67-70.

WILL RFB 2043

Sol. - Chem

Mar 62

217548

(DC-4600/8)

The All-Union Scientific and Engineering Conference on Boiler-Auxiliary Equipment, by V. I. Trenchovskiy, 8 pp.

RUSSIAN, per, Teploenergetika, No 3, 1961,
pp 91-94.

JPRS 8650

2 USSR
Recon
Aug 61

163,336

Semiconductor Solar Energy Converters, by A. K.
Zaytseva, A. Ya. ~~AKKAKAKAK~~ Gilberman, 1961

RUSSIAN, per, Teploenergetika, No 3, 1961,
pp 100-107. 1532

*FTD-TT-62-1656

Sci - Phys
29 Nov 62

An Investigation of the Possibility of Using
Polycrystalline Silicon for Making Photoelectric
Converters, by A. Ya. Gilberman, A. K. Zaytseva,
et al. 17 pp

RUSSIAN, per, Teploenergetika, No 3, 1961, pp 116-128.

*FTD-TT-62-KX 1656

Sci - Phys
29 Nov 62

The Construction and Electrical Characteristics of
Batteries of Silicon Photo-Converters, by
G. S. Daletskiy, N. V. Shavrin. 1854

RUSSIAN, per, Teploenergetika, No 3, 1961,
pp 137-151. 1854

*FTD-TT-62-1656

Sci - Chem
29 Nov 62

Investigation of Silicon Photoelectric Cells for
High Concentrations of Solar Energy, 6 pp.

RUSSIAN, per, Toploenergetika, No 3, 1961.
9668532

FTD-TT-62-1656

Sci-Phys
May 63

230,818

Reflectors for Solar Photoelectric Batteries, 8 pp.

RUSSIAN, per, Teploenergetika, No 3, 1961.
9668532

FTD-TT-62-1656

Sci-Phys
May 63

230,819

THERMAL AND CHEMICAL TESTS ON A ONCE-THROUGH
BOILER AND HIGH-PRESSURE TURBINE, BY YU. V.
ZENKEVICH, S. YA. ARIEL.

RUSSIAN, PER, TEPLONERGETIKA, VOL VIII, NO 4,
1961, PP 12-15.

NLL 4. 6172

SCI - CHEM, ENGR

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CLOSED-CYCLE STEAM-GAS-TURBINE PLANT, BY L. I.
SLOBODYANYUK, V. A. SPIRIDONOV.

RUSSIAN, PER, TEPLONERGETIKA, VOL VIII, NO 4,
1961, PP 25-27.

NLL M. 6322

SCI - ENGR

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Effect of Pitch and Angle of Guide Blades on the
Operation of a Turbine Stage, by A. M.
Zavodovskiy.

RUSSIAN, per, Et Teploenergetika, No 4, 1961,
pp 28-30.

NLL M. 3584

Sci - Engr

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Effect of the Guide Blade Chord on the
Characteristics of a Turbine Stage, by M. F.
Fedorov, A. V. Garkusha.

RUSSIAN, per, Toploenergetika, No 4, 1961,
pp 37-41.

ALL N. 3597

Sci - Engr

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Increasing the Efficiency of Diffusers by
Fitting Transverse Fins, by ~~Y~~ V. K. Miga .

RUSSIAN, per, Teploenergetika, No 4, 1961,
pp 41-43.

NLL M. 3594

Sci - Aero

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VTI GAS GENERATOR FOR USE IN GAS ~~XTM~~ TURBINE
PLANTS, BY KH. I. KOLODTSEV.

RUSSIAN, PER, TEPLOENERGETIKA, VOL VIII, NO 4,
1961, PP 44-48.

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TN7 E57 NO 532

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SCI - ENGR

209,600

SEP 62

OTS 62-25121

The Equation of State for Water, Based on Experimental Data, by M. P. Vukalovich, V. N. Zubare, 6 pp.

RUSSIAN, per, Teploenergetika, No 4, 1961, pp 76-81.

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Sci - Math, Phys

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63-24081

Mostofin, A. A. and Sorokina, N. S.
TsKTI SALINOMETERS WITH DEGASSING AND
CONCENTRATION OF THE SAMPLES. [1963] [9p]
C. E. Trans. 2714.
Order from OTS or SLA \$1.10 63-24081

Trans. of Teploenergetika (USSR) 1961, v. 8, no. 4,
p. 85-89.

DESCRIPTORS: *Salinometers, Feed water, Boilers,
Power plants (Establishments), Steam, Salinity,
Design.

Salinometers are described which may be used for the
continuous operational control of the water regime in
present-day power stations, and especially power
stations with once-through boilers. These are built in
four versions, viz.: to control the quality of the super-
heated steam, the feed water of once-through boilers,
the distillate of evaporators and the turbine condensate.
(Engineering-Chemical, TT, v. 10, no. 12)

I. Mostofin, A. A.
II. Sorokina, N. S.
III. CE Trans-2714
IV. Central Electricity
Generating Board
(Gr. Brit.)

Office of Technical Services

(NY-2900/62)

The Utilization of Gas-Turbine Installations in
Large-Scale Power Engineering, 11 pp. by A. G. Kost'yuk
G. I. Shuvalov.
RUSSIAN, par, Neftoenergetika, May 1961, pp 3-6.

JPRS 9865

164, 978

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Econ

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61-22989

Kostyuk, A. G. and Shuvalov, G. I.
USING GAS TURBINE INSTALLATIONS IN LARGE
CAPACITY POWER SYSTEMS. [1961].
Order from FT \$12.80 FT-601

Trans. of Teploenergetika (USSR) 1961 [v. 8] no. 5.
p. 3-6.

DESCRIPTORS: *Power plants, USSR, *Gas turbines.

- I. Kostyuk, A. G.
- II. Shuvalov, G. I.
- III. FT-601
- IV. Paraday Translations,
New York

Office of Technical Services

(Engineering--Mechanical, TT, v. 6, no. 4)

61-25558

Kaplan, M. P.
DETERMINING THE OPTIMUM PARAMETERS FOR
COMBINED STEAM-GAS TURBINE CYCLES [1961].
Order from FT \$13.60 FT-605

Trans. of Teploenergetika (USSR) 1961, v. 8, no. 5,
p. 6-11.

DESCRIPTORS: *Gas turbines, *Steam turbines,
Turbines.

I. Kaplan, M. P.
II. FT-605
III. Faraday Translations,
New York

(Machinery--Engineering, TT, v. 6, no. 11)

Office of Technical Services

61-25416

Klitin, N. P., Nechaev, V. A. and others.
TESTING THE PERFORMANCE OF THE GTU-600-
1.5 GAS TURBINE PLATE REGENERATOR. [1961].
Order from FT \$13.90 FT-614

Trans. of Teploenergetika (USSR) 1961 [v. 8] no. 5,
p. 11-17.

DESCRIPTORS: *Gas turbine regenerators, Test
methods, Tests

- I. Klitin, N. P.
- II. Nechaev, V. A.
- III. FT-614
- IV. Parady Translations,
New York

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(Machinery-Engineer, TT, v. 7, no. 8)

Office of Technical Services

61-25414

Prokopenko, A. G., Lazarenko, A. V. and others.
STARTING MODES AND TEMPERATURE STATE OF
THE VKT-100 TURBINE. [1961]
Order from IT \$14.50 FT-604

Trans. of Teploenergetika (USSR) 1961 [v. 8] no. 5,
p. 17-24.

DESCRIPTORS: *Turbines, Starting, Temperature.

- I. Prokopenko, A. G.
- II. Lazarenko, A. V.
- III. FT-604
- IV. Paraday Translations,
New York

187330

(Machinery--Engines, TT, v. 6, no. 10)

Office of Technical Services

Boloban, P. E. and Davydov, N. I.
SPECIAL AUTOMATIC CONTROL FEATURES OF
SINGLE BOILER-SINGLE TURBINE UNITS IN THER-
MAL ELECTRIC POWER STATIONS. [1961]
Order from FT \$12.50 FT-609

Trans. of Teploenergetika (U.S.R.) 1961, v. 8, no. 5,
p. 25-28.

DESCRIPTORS: *Power plants, Electric power produc-
tion, Heat production, *Boilers, *Turbines, Control
systems.

(Engineering--Mechanical, TT, v. 6, no. 10)

61-25418

- I. Boloban, P. E.
- II. Davydov, N. I.
- III. FT-609
- IV. Paraday Translations,
New York

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Office of Technical Services

Heat-Resistant Steel as a Bolting Material for
Steam Power Installations, by L. Ya. Liberman,
M. N. Sokolova.

RUSSIAN, per, Teploenergetika, Vol VIII, No 5,
1961, pp 28-34.

BISI 2451

INT. M. SEC 171, 402

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Ratner, A. V. and Kagan, D. Ya.
INVESTIGATING CORROSIVE ACTION IN PACKINGS
[1961]

Order from FT \$11.75 FT-612

Trans. of Teploenergetika (USSR) 1961 [v. 8] no. 5,
p. 35-39.

DESCRIPTORS: *Gasket, *Hydraulic seals,
*Pneumatic packing, Corrosion, Corrosion research.

- I. Ratner, A. V.
- II. Kagan, D. Ya.
- III. FT-612
- IV. Faraday Translations,
New York

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Office of Technical Services

(Metallurgy--Corrosion, TT. v. 6, no. 10)

61-25555

Krol, L. B., Kemel'man, G. N. and others.
A STUDY OF SUPERHEATED STEAM TEMPERA-
TURE CONTROL BY THE GAS RECIRCULATION
METHOD, [1961]
Order from FT \$14.50 FT-608

Trans. of Teploenergetika (USSR) 1961, v. 8, no. 5,
p. 39-45.

DESCRIPTORS: *Steam, *Temperature control, Con-
trol, Gases, Heat transfer.

(Physics--Thermodynamics, TT, v. 6, no. 11)

- I. Krol, L. B.
- II. Kemel'man, G. N.
- III. FT-608
- IV. Faraday Translations,
New York

Office of Technical Services

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FLOW MODEL STUDIES OF THE AERODYNAMICS
OF GAS CHANNELS IN TP-90 AND TP-100
BOILERS WITH T-SHAPED BURNER GROUPING.
[1961]
Order from FT \$15.85 FT-607

I. Permyakov, V. A.
II. Danilenkova, N. I.
III. FT-607
IV. Parady Translations,
New York

Trans. of Teploenergetika (USSR) 1961 [v. 8] no. 5,
p. 45-52.

DESCRIPTORS: *Boilers, *Ducts, Aerodynamics,
Model tests, Gas flow, Gases.

117770

Office of Technical Services

(Mechanics--Aerodynamics, IT, v. 6, no. 4)

61-22992

Dement'ev, B. A., Loginov, A. A. and others.
INVESTIGATIONS OF A CYCLONE SEPARATOR IN
NATURAL CIRCULATION SYSTEM. [1961].
Order from FT \$14.25 FT-610

Trans. of Teploenergetika (USSR) 1961 [v. 8]
no. 5, p. 52-57.

DESCRIPTORS: Particles, Gases, Separation.

- I. Title: Cyclone separator
- I. Dement'ev, B. A.
- II. Loginov, A. A.
- III. FT-610
- IV. Faraday Translations,
New York

100726

Office of Technical Services

(Machinery, Fabrications and Accessory Equipment,
TT, v. 6, no. 4)

Poslednichenko, Yu. G.
AN HYDRAULICALLY OPERATED SLAG CRUSHER.
[1961].
Order from IT \$10.50 FT-613

Trans. of Teploenergetika (USSR) 1961 [v. 8] no. 5,
p. 57-59.

DESCRIPTORS: Hydraulic systems, *Ball mills,
*Slags, Processing.

(Metallurgy, TT. v. 6, no. 4)

61-22994

I. Poslednichenko, Yu. G.
II. FT-613
III. Faraday Translations,
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Office of Technical Services

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Prokhorova, A. M.
RESTORING THE LOST EXCHANGE CAPACITY OF
STRONGLY BASIC ANION EXCHANGERS. [1961].
Order from FT \$14.95 FT-611

Trans. of Teploenergetika (USSR) 1961 (v. 8) no. 5,
p. 66-70.

DESCRIPTORS: *Ion exchange, Exchange reactions.

I. Prokhorova, A. M.
II. FT-611
III. Paragon Translations,
New York

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Office of Technical Services

(Chemistry--Physical, TT, v. 6, no. 4)

Subbotina, N. P.
THE USE OF H-CATION EXCHANGE WITH STARVA-
TION REGENERATION IN SCHEMES OF CHEMICAL
DESALTING OF WATER. [1961].
Order from FT \$16.50

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Trans. of Teploenergetika (USSR) 1961 [v. 8] no. 3,
p. 71-76.

DESCRIPTORS: "Water, Desalination, Hydrogen, *Ion
exchange, Exchange reactions.

(Engineering--Chemical, TT, v. 6, no. 4)

61-22990

I. Subbotina, N. P.
II. FT-602
III. Paraday Translations,
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Office of Technical Services

National Parameters for Steam Power Plant
Installations With Waste Heat Boilers, by V. M.
Datskovskiy.

RUSSIAN, per, Teploenergetika, Vol VIII, No 5,
1961, pp 76-78.

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THERMAL COEFFICIENTS OF WATER. [1961].
Order from FT \$7.70 FT-616

Trans. of Teploenergetika (USSR) 1961 [v. 8] no. 5,
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DESCRIPTORS: Water, Thermodynamics.

(Physics--Thermodynamics, TT, v. 6, no. 4)

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- I. Mamedov, A. M.
- II. FT-616
- III. Paraday Translations,
New York

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Certain Observations on the Selection of the Final
Parameters for a New Series of High-Power Con-
densation Turbines of the Leningrad Metal Plant,
21 pp.

RUSSIAN, per, Teploenergetika, May 1961, pp 81-85.

JPRS 9865

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(SF 1377)

Future Development of Power Engineering, 3 pp.

RUSSIAN, par, Teploenergetika, No 6, 1961, pp 3-5.

JPRS 4898

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Generalization of Experimental Data on the Heat
Conductivity of Steam, by N. B. Vargaftik, A. A.
Tatarskiy, 4 pp.

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Calculation of the Outflow of Saturated and Moist
Steam Nozzles, by I. I. Novikov.

RUSSIAN, per, Teploenergetika, N Vol VIII, No 6,
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NIL M. 3538

Sci - Engr
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Thermodynamic Analysis of the Heat Exchange
Conditions in the Steam Generators of Atomic
Electric Power Stations, by D. D. Kalafati,
3 pp.

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Hydraulic Resistances of Tubes in the Case of
Rising Flow of a Steam-Water Mixture at High
Velocities and High and Ultra-High Pressures, by
M. M. Przhiyalkovskiy, I. N. Petrova, 7 pp.

RUSSIAN, in per, Teploenergetika, Vol VIII, No 6,
1961, pp 25-28.

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SELECTION OF THE PERIPHERAL VELOCITY OF THE WHEEL
OF THE CENTRIGUGAL STAGE OF A COMPRESSOR, BY
K. F. SHPITAL'NIKOV, 15 PP.

RUSSIAN, PER, TEPLONERGETIKA, 10 6, 1961,
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Heat Transfer Unit Resistance of Finned Bundles, by
N. P. Klitin, V. A. Lokshin.

RUSSIAN, per, Teploenergetika, Vol. VI, 1961, pp 53-57.

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Industrial Testing of the Use of Hydrazine to
Prevent Iron Oxide Scale Formation, by
N. N. Mas'kina.

RUSSIAN, per, Teplotnerg, Vol. VIII, No 6,
1961, pp 62-64.

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The Use of Double Tube Sheets in Steam Turbine
Condensers, by L. D. Berman, et al.

RUSSIAN, per, Teploenergetika, Vol VIII, No 7,
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NLL M. 3619

Sci -- Engr

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